

## EAST Search History

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|--|--|------------------|---------|---------------------|
| S1    | 136  | masaru near taniguchi  | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR             | ON      | 2009/06/21<br>11:23 |
| S2    | 2    | (masaru near taniguchi) and (multi-level or (multi level) or m-ary or n-ary or quaternary)               | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR             | ON      | 2009/06/21<br>11:24 |
| S3    | 7    | (masaru near taniguchi) and (multi-level or (multi level) or m-ary or n-ary or quaternary or four-level) | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR             | ON      | 2009/06/21<br>11:24 |
| S4    | 8    | (encod\$3 with modulat\$3) and (frequency near shift\$3) with (maximum value)                            | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR             | ON      | 2009/06/21<br>11:28 |
| S5    | 20   | (channel near spacing near4 ("6.25" or "6250"))  | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR             | ON      | 2009/06/21<br>11:34 |
| S6    | 7966 | 375/133,135-136,219,271,281,295,302,316,322.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR             | ON      | 2009/06/21<br>12:02 |

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| S7  | 1  | S5 and S6   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>12:04 |
| S8  | 7  | 375/133,135-136,219,271,281,295,302,316,322.ccls. and ((emission near spectrum) same (emission near mask))                          | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>12:05 |
| S9  | 1  | ((channel near spacing) and ((emission near spectrum) same (emission near mask)))   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>12:08 |
| S10 | 5  | ((channel near spacing) and ((spectrum) same (emission near mask)))   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>12:08 |
| S11 | 56 | ((emission near spectrum) same (emission near mask))  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>12:12 |
| S12 | 33 | ((emission near spectrum) same (emission near mask)) and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @rlad<"20031106") | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>12:13 |

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| S13 | 35 | (encod\$3 with mapp\$3) and ((rrc or (root adj raised adj cos\$3)) near filter\$3) and ((frequency modulat\$3) or fm)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>12:52 |
| S14 | 0  | (symbol with (four-level or (four level) or multi-level or (multi level) or multi-value)) and ((frequency shift\$3) with (range ("822" or "822" or "952")))       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>13:58 |
| S15 | 0  | (symbol with (four-level or (four level) or multi-level or (multi level) or multi-value)) and ((frequency shift\$3) with (range near4 ("822" or "822" or "952"))) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>13:58 |
| S16 | 0  | (symbol with (four-level or (four level) or multi-level or (multi level) or multi-value)) and ((frequency shift\$3) with (range near4 khz))                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:02 |
| S17 | 0  | (symbol with (quaternary or four-level or (four level) or multi-level or (multi level) or multi-value)) and ((frequency shift\$3) with (range near4 khz))         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:03 |
| S18 | 0  | (symbol with (quaternary or four-level or (four level) or multi-level or (multi level) or multi-value)) and ((frequency shift\$3) with (range near4 khz))         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:03 |

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| S19 | 0   | ((symbol with (nary or mary or n-ary or quaternary or four-level or (four level) or multi-level or (multi level) or multi-value)) and ((frequency shift\$3) with (range near4 khz))               | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:04 |
| S20 | 226 | ((frequency shift\$3) and (symbol with (nary or mary or n-ary or quaternary or four-level or (four level) or multi-level or (multi level) or multi-value))  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:05 |
| S21 | 17  | ((frequency shift\$3) with (khz or range)) and (symbol with (nary or mary or n-ary or quaternary or four-level or (four level) or multi-level or (multi level) or multi-value))                   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:05 |
| S22 | 1   | 10/578,228  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:21 |
| S23 | 238 | modulat\$3 and (frequency near shift\$3 with (based or according or correspond \$3) with (magnitude or amplitude))  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:36 |
| S24 | 189 | modulat\$3 and (frequency near shift\$3 with (based or according or correspond \$3) with (magnitude or amplitude)) and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @rlad<"20031106") | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>14:37 |

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| S25 | 168  | ((transmission near rate) with ((frequency near shift\$3) or (channel near spacing)))  | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:01 |
| S26 | 0    | ((transmission near rate) with ((frequency near shift\$3) or (channel near spacing)) and (spectral near mask))                           | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:02 |
| S27 | 5    | ((transmission near rate) with ((frequency near shift\$3) or (channel near spacing)) and (symbol near (level or value)))                 | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:03 |
| S28 | 207  | 375/281.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:08 |
| S29 | 196  | 375/281.ccls. and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @riad<"20031106")   | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:08 |
| S30 | 3465 | 375/271,272,279,281,297,298,300,302,303,306,322,323.ccls. and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @riad<"20031106") | US-PGPUB;<br>USPAT;<br>USOCR: FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:18 |

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| S31 | 469  | {(375/271,272,279,281,297,298,300,302,303,308,322,323.cds.) and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @riad<"20031106") and ((symbol near (level or value)) or quaternary or four-level or (foru level) or multi-level or (multi level))   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>18:21 |
| S32 | 21   | S31 and ((half\$3 or half\$3) near4 ((transmission near rate) or spectrum or channel))  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>18:24 |
| S33 | 469  | {(375/271,272,279,281,297,298,300,302,303,308,322,323.cds.) and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @riad<"20031106") and ((symbol near (level or value)) or quaternary or four-level or (foru level) or multi-level or (multi level))   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>18:27 |
| S34 | 23   | S33 and ((half\$3 or half\$3) near4 ((transmission near rate) or spectrum or (frequency near shift\$3) or channel or spacing))  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>18:27 |
| S35 | 466  | ((@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @riad<"20031106") and (symbol near3 (nary or n-ary or quaternary or four-level or (four level) or multi-level or (multi level))), and ((half\$3 or half\$3 or divid\$3) near4 ((transmission near rate) or spectrum or (frequency near shift \$3) or channel or spacing)) | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>18:36 |
| S36 | 9830 | ((divid\$3 or half\$3 or half\$4) near4 (channel spac\$3) or (spectrum) or (transmission rate)) and foc   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>18:52 |

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| S37 | 560 | ((divid\$3 or halv\$3 or halv\$4) near4 ((channel spac\$3) or (spectrum) or (transmission rate))) and foc  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:53 |
| S38 | 443 | ((divid\$3 or halv\$3 or halv\$4) near4 ((channel spac\$3) or (spectrum) or (transmission rate))) and foc and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @riad<"20031106") | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:54 |
| S39 | 0   | (channel near spac\$3) with ("6.25khz" or 6250hz)  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:57 |
| S40 | 27  | (channel near spac\$3) with ("6.25" or "6250")   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>18:57 |
| S41 | 2   | ((base band filter\$3) or (base-band filter\$3)) and ((modulat\$3 near4 frequency near5 (amplitude or magnitude)) with range)  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>19:05 |
| S42 | 10  | ((base band) or (base-band) or (root raised cosine) or nyquist) near filter\$3 and ((modulat\$3 near4 frequency near5 (amplitude or magnitude)) with range)                              | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>19:08 |

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| S43 | 4  | ((((base band) or (base-band) or (root raised cosine) near filter\$3) same ((sinc filter\$3)) and (modulat\$3 near4 frequency)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>19:12 |
| S44 | 11 | ((((root raised cosine) near filter\$3) same ((sinc or low-pass or (ideal low pass) filter\$3)) and (modulat\$3 near4 frequency)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>19:16 |
| S45 | 11 | ((((root-raised-cosine or (root raised cosine)) near filter\$3) same ((sinc or low-pass or (ideal low pass) filter\$3)) and (modulat\$3 near4 frequency)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>19:17 |
| S46 | 16 | ((((root-raised-cosine or rrc or (root raised cosine)) near filter\$3) same ((sinc or low-pass or (ideal low pass) filter\$3)) and ((modulat\$3 near4 frequency) or fm)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>19:22 |
| S47 | 38 | ((((root-raised-cosine or rrc or (root rais\$3 cos\$3)) near filter\$3) same ((sinc or (low pass) or lpf or low-pass or (ideal low pass) filter\$3)) and ((modulat\$3 near4 frequency) or fm)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>19:26 |
| S48 | 5  | ((((base band) or (base-band) or (root raised cosine)) near filter\$3) and ((frequency modulation) with range)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>22:26 |
| S49 | 6  | ((transmit\$4 with symbol with (nary or mary or n-ary or quaternary or four-level or (four (value or level)) or multi-level or (multi (value or level)) or multi-value)) and (((base band) or (base-band) or (root raised cosine)) near filter\$3) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | NEAR | ON | 2009/06/21<br>22:53 |



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| S50 | 578 | ((transmit\$4 with symbol with (nary or mary or n-ary or quaternary or four-level or (four (value or level)) or multi-level or (multi (value or level)) or multi-value))  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>22:56 |
| S51 | 100 | ((transmit\$4 with symbol with (nary or mary or n-ary or quaternary or four-level or (four (value or level)) or multi-level or (multi (value or level)) or multi-value)) and ((frequency modulation) or fm)             | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>22:57 |
| S52 | 1   | ((transmit\$4 with symbol with (nary or mary or n-ary or quaternary or four-level or (four (value or level)) or multi-level or (multi (value or level)) or multi-value)) and ((frequency shift\$3) with range with khz) | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>23:49 |
| S53 | 1   | ((transmit\$4 with (nary or mary or n-ary or quaternary or four-level or (four (value or level)) or multi-level or (multi (value or level)) or multi-value)) and ((frequency shift\$3) with range with khz)             | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>23:50 |
| S54 | 198 | ((frequency near3 shift\$3) with range with (khz or ".822" or ".952" or "822" or "952")) and (transmit\$4)  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/21<br>23:52 |
| S55 | 163 | ((frequency near3 shift\$3) with range with (khz or ".822" or ".952" or "822" or "952")) and (transmit\$4) and (@pd<"20031106" or @ad<"20031106" or @prad<"20031106" or @riad<"20031106")                               | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2009/06/22<br>00:02 |

6/22/2009 9:02:56 AM

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